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**Claims**

1. Audio system providing a dynamic sound field adaptation to follow a listeners (2) position, the audio system (1) comprising:
  - a relative location determination means (4) for determining the relative positions  
10 of at least all sound emitting components (L, C, R, LS, RS) of the audio system (1) with respect to each other,
  - a personal device detection means (5) for detecting a personal device belonging to a user (2),
  - a personal device position tracking means (6) for tracking the position of the  
15 personal device, and
  - a re-calibration means (7) for re-calibrating the sound field such, that the sweet spot of the sound field is placed at the current position of the personal device.
2. Audio system according to claim 1,  
20 characterised in  
that the relative location determination means (4), the personal device detection means (5), the personal device position tracking means (6), and the re-calibration means (7) each are adapted to communicate via a network.
- 25 3. Audio system according to claim 2,  
characterised in  
that the network is at least partly implemented in form of a wireless communication network.
- 30 4. Audio system according to claim 2 or 3,  
characterised in  
that the network is at least partly implemented in form of a wired communication network.
- 35 5. Audio system according to one of the claims 2 to 4,  
characterised in  
that each physically distinguishable unit of the audio system (1) comprises membership attribute data representing its identity.
- 40 6. Audio system according to one of the claims 1 to 5,

characterised in

that the audio system further comprises an arbitration means (11) for arbitrating between different requirements set by more than one personal device being detected by the personal device detection means (5) according to a set of criteria.

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7. Audio system according to claim 6,  
characterised in

that one of the criteria is to position the sweet spot for covering a maximum number personal device positions as tracked by the personal device position tracking means.

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8. Audio system according to claim 6 or 7,  
characterised in

that one of the criteria is to position the sweet spot to a position of a preferred personal device as tracked by the personal device position tracking means.

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9. Audio system according to any one of the preceding claims,  
characterised by

a physical item detection means (14) for detecting acoustically interfering items around the sound source.

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10. Audio system according to any one of the preceding claims,  
characterised by

a profile storage (13) for storing preferred settings of the audio system (1).

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11. Audio system according to any one of the preceding claims,  
characterised in

that the audio system (1) comprises a position display for displaying the positions of the sound emitting components (L, C, R, LS, RS) and/or the position of each personal device detected, and/or the position of the current sweet spot.

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12. Audio system according to any one of the preceding claims,  
characterised in

that the audio system (1) comprises a mode switching means for switching at least between a mode where the sweet spot follows a listener and a mode where the sweet spot is kept in a fixed position.

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